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Imagery analysis report

**Naval-Associated Electronics
Testing at Nanching (Nan-ching)
Institutional Area 5, PRC**

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NAVAL-ASSOCIATED ELECTRONICS TESTING AT NANCHING (NAN-CHING) INSTITUTIONAL AREA 5, PRC

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SUMMARY

1. [] Naval-associated electronics testing has been newly identified in the test/control area of the Nanching (Nan-ching) Institutional Area 5 [] the People's Republic of China (PRC). The facility is 2.1 nautical miles (nm) north-northeast of Nanching/Yuxikou (Yu-hsi-kou) Airfield [] and is immediately adjacent to Nanching Domestic Communication Satellite Station [] 25X1
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2. [] A uniquely configured 10-meter parabolic dish antenna with an attached 1-meter parabolic antenna was identified at Nanching Institutional Area 5 in May 1979. Subsequently, the same type of antenna was seen on the Yuanwang Space Events Support Ship (SESS) at Shanghai (Shang-hai) Shipyard Jiangnan (Kiang-nan) Dock Company [] The presence of these antennas indicates the involvement of Area 5 in space tracking/telemetry electronics. The two SESS presently under construction will enable the Chinese to support satellite launches and full-range at-sea ICBM testing. The primary function of this type of ship is to track, acquire telemetry from, and command space vehicles, but the same instrumentation can also be used to track, acquire telemetry from, and geoposition the impact point of an ICBM reentry vehicle. 25X1
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3. [] Area 5 was formerly designated Nanching Army Barracks AL 27 [] A van-mounted, 4-meter parabolic antenna of undetermined function, identified at Area 5 in September 1974, was still present when the facility was last observed. One 10-meter parabolic antenna had been present from August to December 1978. No imagery was obtained of Area 5 from late December 1978 to May 1979. 25X1

CHRONOLOGY OF OBSERVATIONS

4. [] a 10-meter parabolic dish antenna with a 1-meter parabolic antenna mechanically attached to the perimeter was identified for the first time at Area 5. This uniquely configured antenna was mounted on a pedestal on a circular section of a control building in the test/control area. The 10-meter antenna appeared to be constructed of a metallic mesh screen, and the 4-meter center section appeared to be solid. A Cassegrainian feed system appeared to be used for the 10-meter antenna. The 1-meter antenna probably uses a focal-plane feed; however, this could not be confirmed because of the small size of the antenna and the relative interpretability of the available imagery. This antenna was the first of its kind to be identified in the PRC. 25X1
5. [] a second antenna of the same type was observed on a ground-mounted pedestal in the test/control area (Figure 1). Both antennas remained in the same relative positions until some time prior [] By that date, however, the antenna on the ground-mounted pedestal had been dismantled and sections were on the ground (Figure 2). The antenna sections had been removed from the area [] 25X1
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6. [] an antenna identical to the 10-meter parabolic antenna that had been dismantled in the test/control area was identified on a formerly unoccupied pedestal on the Yuanwang SESS Unit 1 at Shanghai Shipyard Jiangnan Dock Company (Figure 3). 25X1
7. [] The antenna mounted on the circular section of the control building in Area 5 was last observed [] The crane used to dismantle the ground-mounted parabolic antenna was immediately adjacent to the remaining antenna. [] an identical parabolic antenna was seen on the Yuanwang SESS Unit 2 at the Shanghai shipyard. The time span between the last observation of the antenna components at Area 5 and the first observation on the SESS was in excess of five weeks in each instance, allowing sufficient time for transfer of the components and installation of the antenna aboard the ship. 25X1
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8. [] a probable helix antenna, [] was occupying the pedestal on the circular section of the control building in the test/control area (Figure 4). At least four probable elements could be identified on the antenna. 25X1

IMAGERY ANALYST'S COMMENTS

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FIGURE 5. PARABOLIC DISH ANTENNAS. SIMILAR TO THOSE AT NANCHING AREA 5, ABOARD THE ARIS USNS ARNOLD.

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REFERENCES

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